ABSTRACT

This invention provides a compound of the formula:

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$$R^{2}-S \xrightarrow{C_{2}} R^{3}R^{4} \xrightarrow{R^{5}} R^{1}$$

$$(R^{6})_{m} (R^{7})_{n}$$

$$(I)$$

or its pharmaceutically acceptable salt thereof, wherein A is partially unsaturated or unsaturated five membered heterocyclic, or partially unsaturated or unsaturated five membered carbocyclic, wherein the 4-(sulfonyl)phenyl and the 4-substituted phenyl in the formula (I) are attached to ring atoms of Ring A, which are adjacent to each other; R^1 is optionally substituted aryl or heteroaryl, with the proviso that when A is pyrazole, R^1 is heteroaryl; R^2 is C_{1-4} alkyl, halo-substituted C_{1-4} alkyl, C_{1-4} alkylarnino, C_{1-4} dialkylamino or amino; R^3 , R^4 and R^5 are independently hydrogen, halo, C_{1-4} alkyl, halo-substituted C_{1-4} alkyl or the like; or two of R^3 , R^4 and R^5 are taken together with atoms to which they are attached and form a 4-7 membered ring; R^6 and R^7 are independently hydrogen, halo, C_{1-4} alkyl, halo-substituted C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, C_{1-4} alkylamino or N,N-di C_{1-4} alkylamino; and m and n are independently 1, 2, 3 or 4.

This invention also provides a pharmaceutical composition useful for the treatment of a medical condition in which prostaglandins are implicated as pathogens.